

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SEA/3096PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 02/ 36579	International filing date (day/month/year) 15/11/2002	(Earliest) Priority Date (day/month/year) 16/11/2001
Applicant SEAGATE TECHNOLOGY, LLC		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of **4** sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report
a. With regard to the language , the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
<input type="checkbox"/> the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
<input type="checkbox"/> contained in the international application in written form.
<input type="checkbox"/> filed together with the international application in computer readable form.
<input type="checkbox"/> furnished subsequently to this Authority in written form.
<input type="checkbox"/> furnished subsequently to this Authority in computer readable form.
<input type="checkbox"/> the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
<input type="checkbox"/> the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished
2. <input type="checkbox"/> Certain claims were found unsearchable (See Box I).
3. <input type="checkbox"/> Unity of invention is lacking (see Box II).
4. With regard to the title ,
<input checked="" type="checkbox"/> the text is approved as submitted by the applicant.
<input type="checkbox"/> the text has been established by this Authority to read as follows:
5. With regard to the abstract ,
<input checked="" type="checkbox"/> the text is approved as submitted by the applicant.
<input type="checkbox"/> the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is Figure No.
<input checked="" type="checkbox"/> as suggested by the applicant.
<input type="checkbox"/> because the applicant failed to suggest a figure.
<input type="checkbox"/> because this figure better characterizes the invention.
1 _____
<input type="checkbox"/> None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/36579

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B19/20 F16C33/16 F16C17/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B F16C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 600 468 A (EBARA CORP) 8 June 1994 (1994-06-08) the whole document ---	1,2,4,5, 10-12, 14,19
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) & JP 2000 213533 A (SANKYO SEIKI MFG CO LTD), 2 August 2000 (2000-08-02) abstract ---	1-3,6,7, 10,11, 13,15, 16,19,20
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 05, 14 September 2000 (2000-09-14) & JP 2000 064053 A (SEIKO INSTRUMENTS INC), 29 February 2000 (2000-02-29) abstract ---	5,9,14, 18 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

10 March 2003

Date of mailing of the international search report

19/03/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Benfield, A

INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 285 527 B1 (KENNEDY MICHAEL D ET AL) 4 September 2001 (2001-09-04) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/36579

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
EP 0600468	A 08-06-1994	JP EP US	6173944 A 0600468 A1 5366298 A	21-06-1994 08-06-1994 22-11-1994
JP 2000213533	A 02-08-2000	NONE		
JP 2000064053	A 29-02-2000	NONE		
US 6285527	B1 04-09-2001	US	6055126 A	25-04-2000